Analysis of 17724 (399 aa)

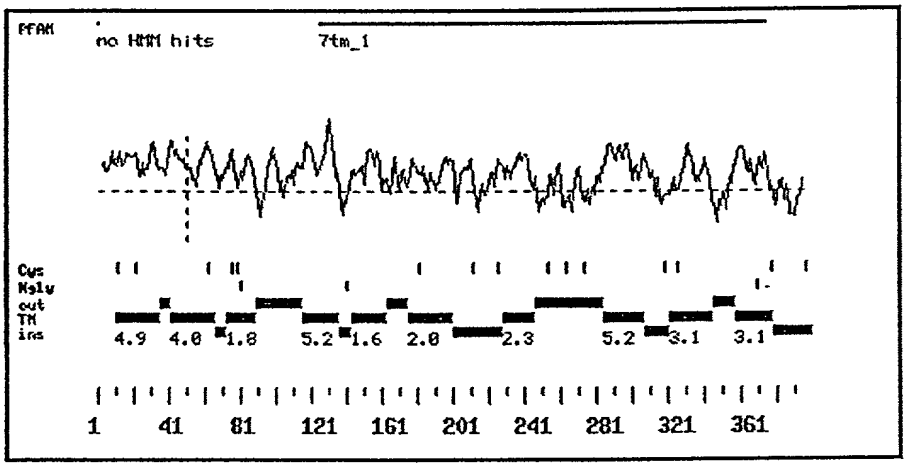


FIG. 1

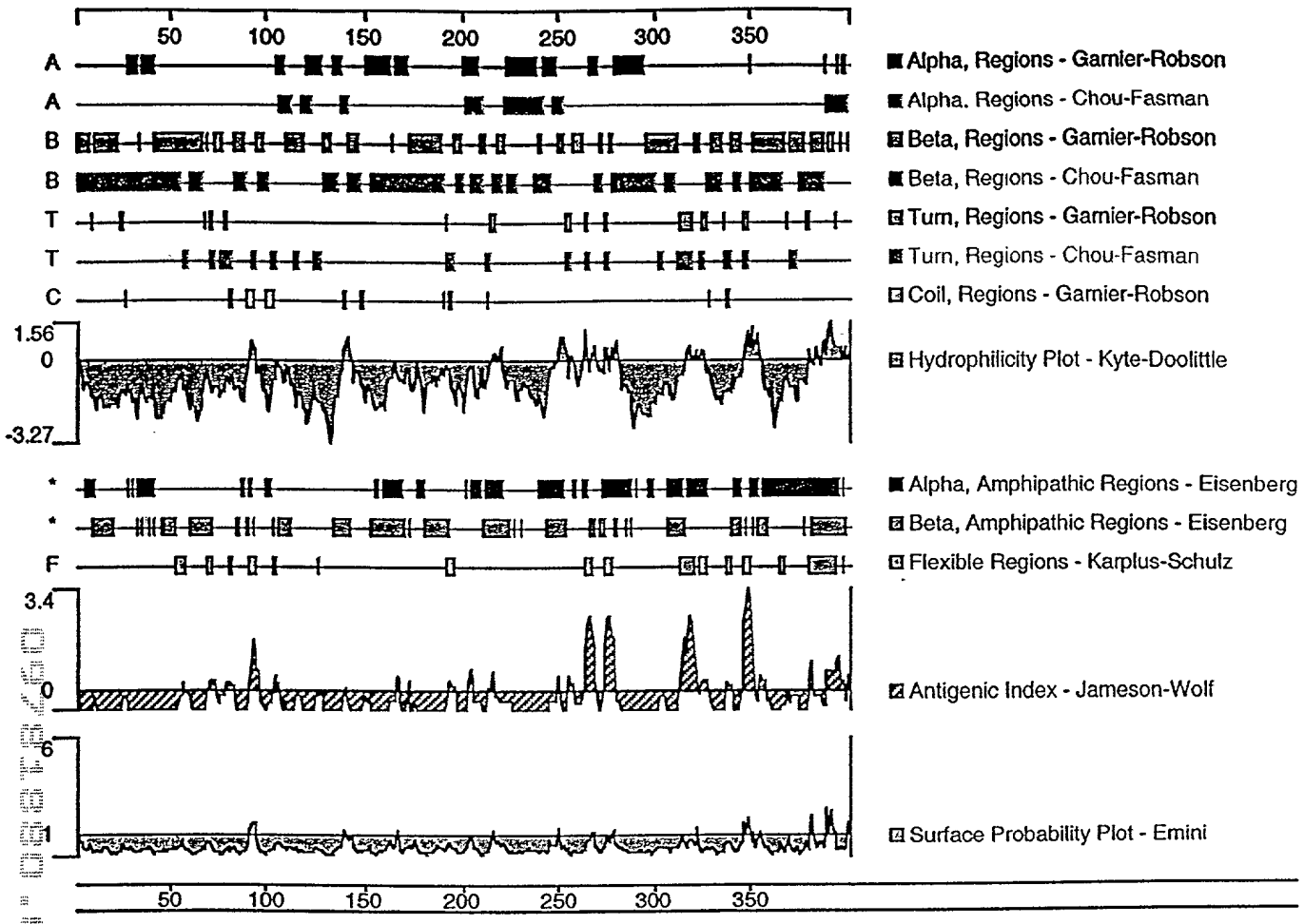
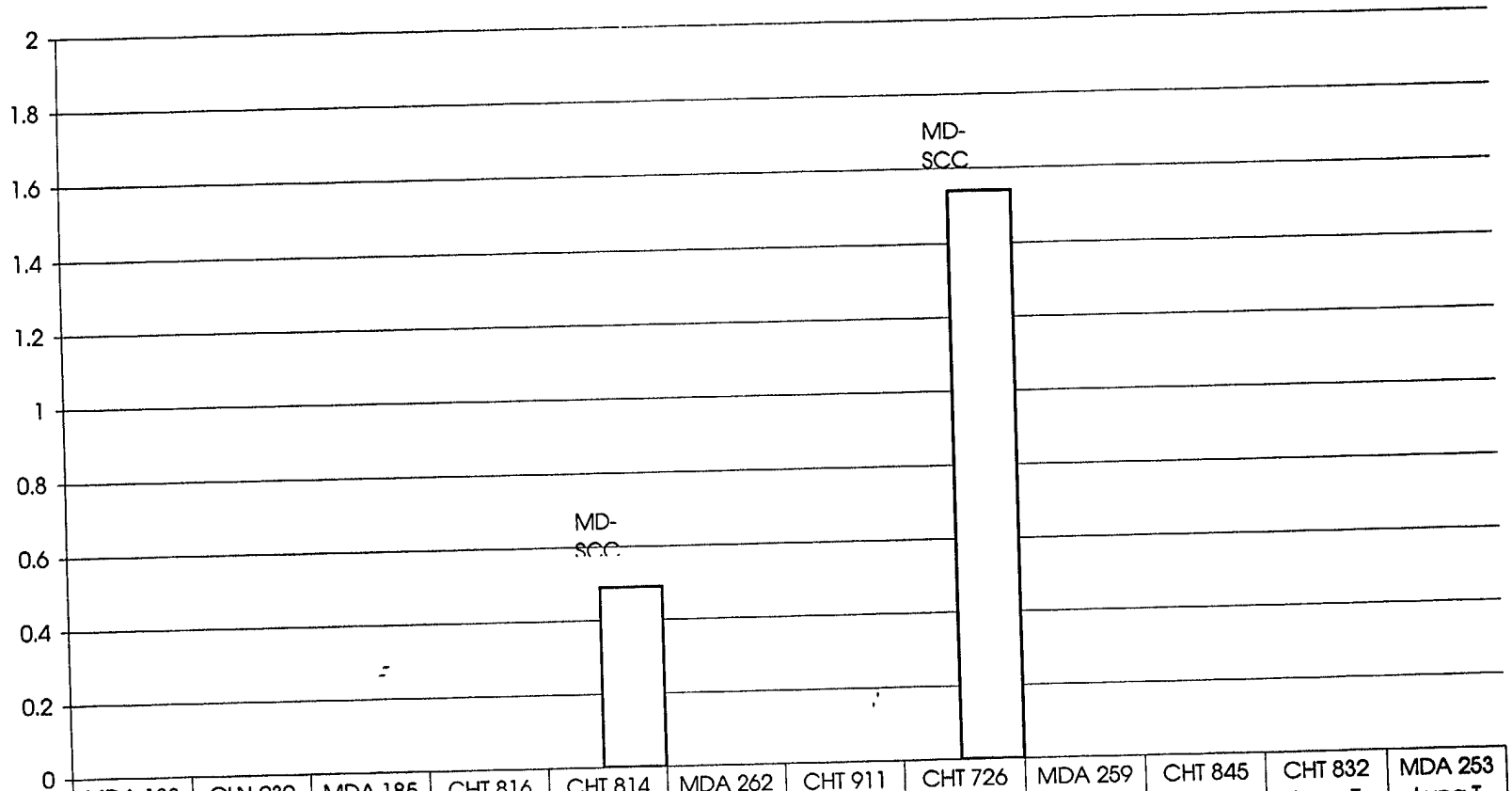

50
100
150
200
250
300
350
A
A
B
B
T
T
C
Alpha, Regions - Garnier-Robson
Alpha, Regions - Chou-Fasman
Beta, Regions - Garnier-Robson
Beta, Regions - Chou-Fasman
Turn, Regions - Garnier-Robson
Turn, Regions - Chou-Fasman
Coil, Regions - Garnier-Robson
1.56
0
-3.27
Hydrophilicity Plot - Kyte-Doolittle
*
*
F
Alpha, Amphipathic Regions - Eisenberg
Beta, Amphipathic Regions - Eisenberg
Flexible Regions - Karplus-Schulz
3.4
0
Antigenic Index - Jameson-Wolf
6
1
Surface Probability Plot - Emini
50
100
150
200
250
300
350

FIG. 2

```
Query:  17724

Scores for sequence family classification (score includes all domains):
Model    Description                                        Score    E-value  N
-------- -----------                                        -----    ------- ---
7tm_1     7 transmembrane receptor (rhodopsin family)        94.1    6.1e-29   1

Parsed for domains:
Model    Domain  seq-f seq-t    hmm-f hmm-t      score  E-value
-------- ------- ----- -----    ----- -----      -----  -------
7tm_1      1/1     125   374 ..     1   259 []    94.1  6.1e-29

Alignments of top-scoring domains:
7tm_1: domain 1 of 1, from 125 to 374: score 94.1, E = 6.1e-29
                  *->GNlLVilvilrtkklrtptnifilNLAvADLLflltlppwalyylvg
                     GN ++i+ ++   +l+tp+++f++N ++  +L++ t +p +l+ l+
       17724   125    GNTIIIVMVIADTHLHTPMYFFLGNFSLLEILVTMTAVPRMLSDLLV 171

                  gsedWpfGsalCklvtaldvvnmyaSillLtaISiDRYlAIvhPlryrrr
                     ++++   +C ++ ++ +  + +S l Lt +++DR++AI+hPlry ++
       17724   172 --PHKVITFTGCMVQFYFHFSLGSTSFLILTDMALDRFVAICHPLRYGTL 219

                  rtsprrAkvvillvWvlalllslPpllfswvktveegngtlnvnvtvCli
                  ++ +  ++ + +++W++ +l+ +P  ++s  ++  + +g+  +n+++C+
       17724   220 MS-RAMCVQLAGAAWAAPFLAMVPT-VLSRAHLDYCHGGV--INHFFCDN 265

                  dfpeestasvstwlrsyvllstlvgFllPllvilvcYtrIlrtlr.....
                      + ++s+   l+++ +l  l + l  +lv l+ Y+ I+ t+ + ++
       17724   266 EPLLQLSCSDTRLLEFWDFLMALTFVLSSFLVTLISYGYIVTTVLripsa 315

                  ...kaaktllvvvvvvFvlCWlPyfivllldtlc.lsiimsstCelervlp
                  ++ + a+ ++  +++ v+  +   i+l++++ +  s            ++
       17724   316 sscQKAFSTCGSHLTLVFIGYSSTIFLYVRPGKaHS-----------VQ 353

                  tallvtlwLayvNsclNPiIY<-*
                    + v+l+ +++ + lNP+I
       17724   354 VRKVVALVTSVLTPFLNPFIL    374
```

FIG. 3

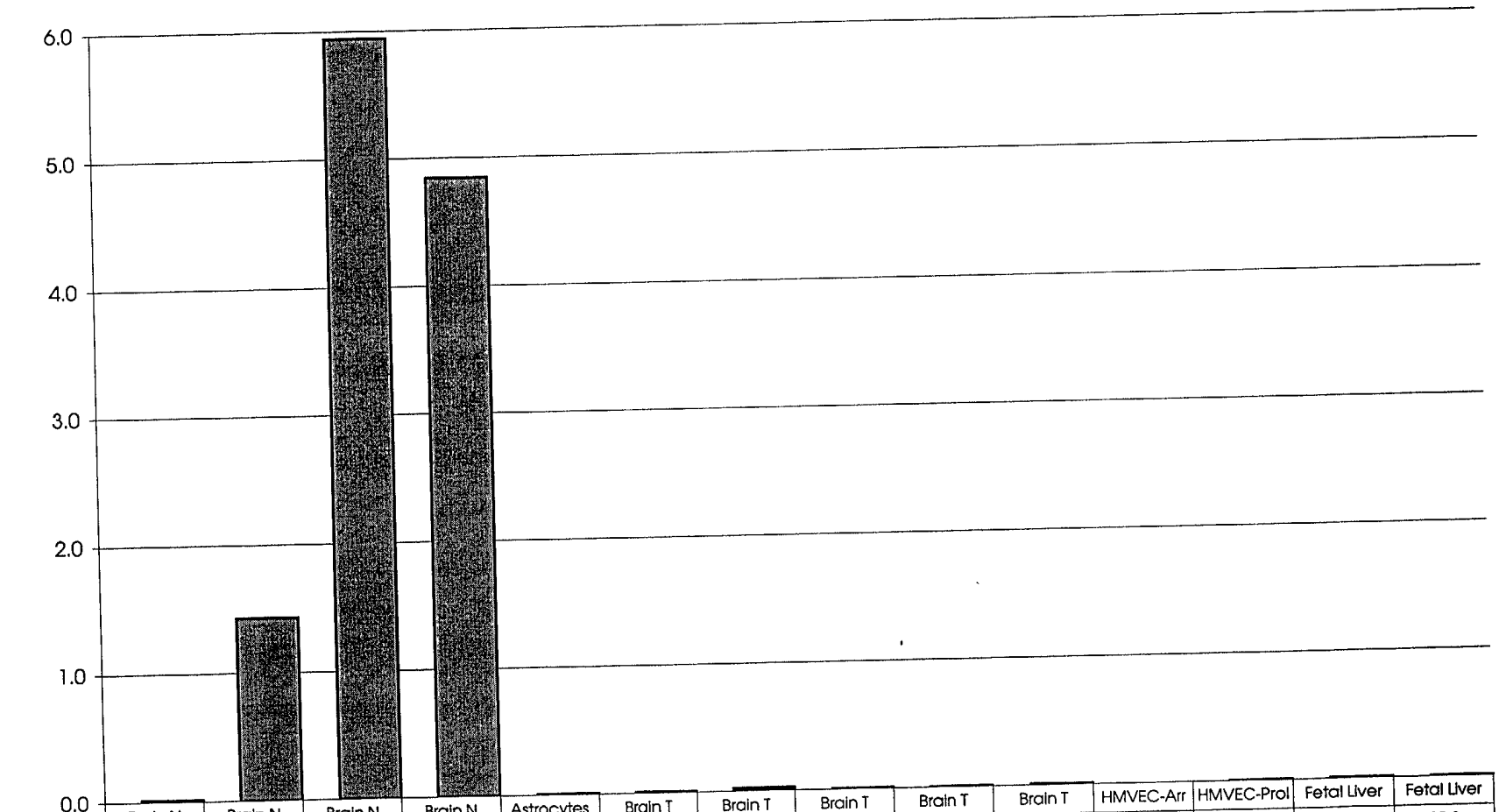
17724 Expression in Clinical Lung Samples



	MDA 183 Lung N	CLN 930 Lung N	MDA 185 Lung N	CHT 816 Lung N	CHT 814 Lung T	MDA 262 Lung T	CHT 911 Lung T	CHT 726 Lung T	MDA 259 Lung T	CHT 845 Lung T	CHT 832 Lung T	MDA 253 Lung T
Mean 17724	40	40	39.89	40	34.88	37.95	40	29.63	40	40	40	40
β 2 Mean	21.45	20.25	17.89	17.17	23.9	19.36	17.79	20.29	21.29	19.54	19	20.25
•• Ct	18.56	19.75	22	22.83	10.98	18.59	22.22	9.34	18.71	20.47	21	19.75
□ Expression	0	0	0	0	0.49	0	0	1.54	0	0	0	0

FIG. 4

17724 Expression in Clinical Angiogenic Samples

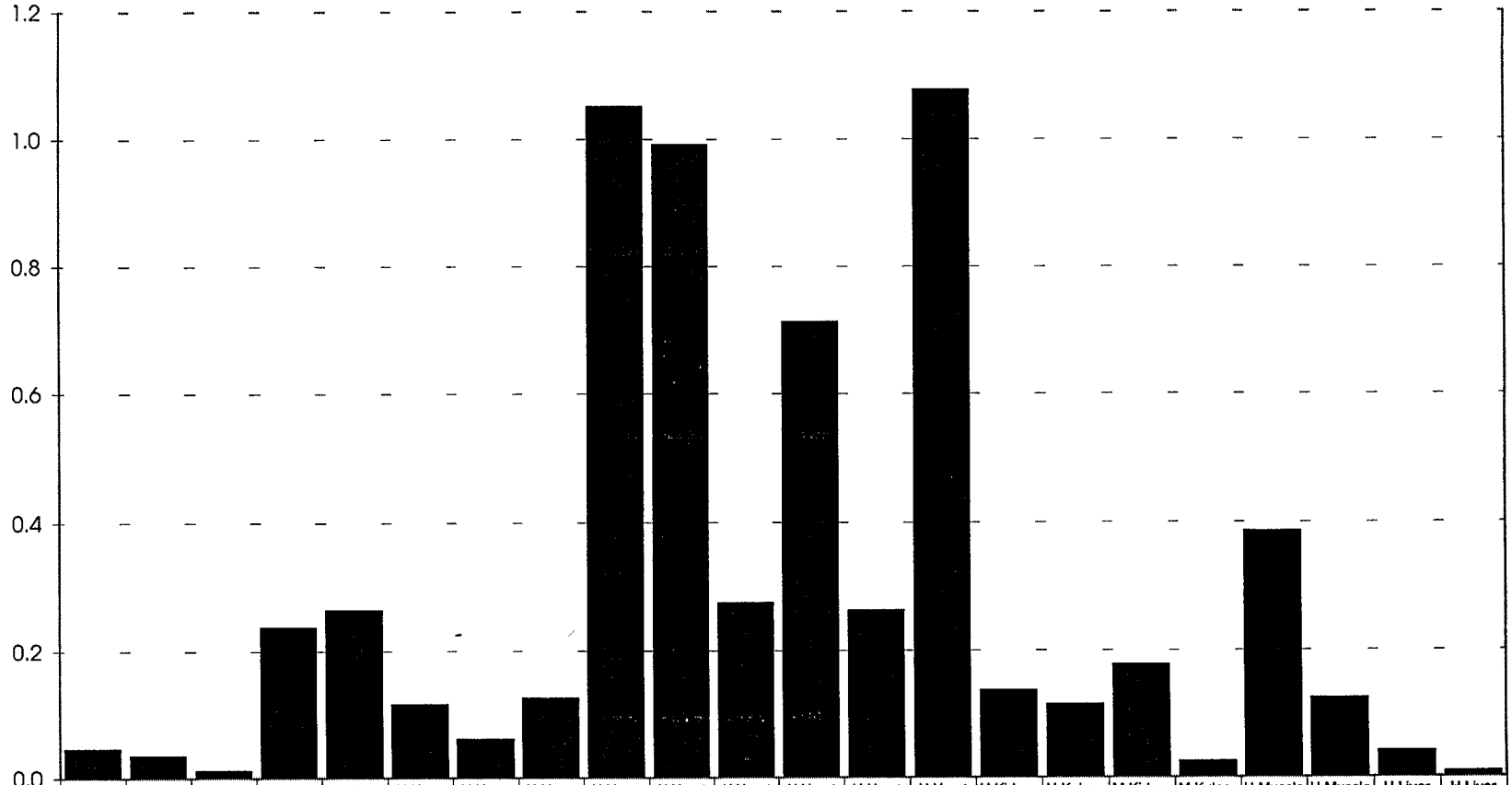


	Brain N	Brain N	Brain N	Brain N	Astrocytes	Brain T	Brain T	Brain T	Brain T	Brain T	HMVEC-Arr	HMVEC-Prol	Fetal Liver	Fetal Liver
17724	40.0	32.5	32.2	30.9	38.5	38.4	32.2	39.1	40.0	40.0	40.0	40.0	40.0	39.8
Beta 2	23.6	23.0	24.8	23.2	20.9	21.2	16.8	21.1	21.6	22.7	18.5	20.9	22.0	20.1
Expression	0.0	1.4	5.9	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

FIG. 5

Tue Jul 20 08:12:26

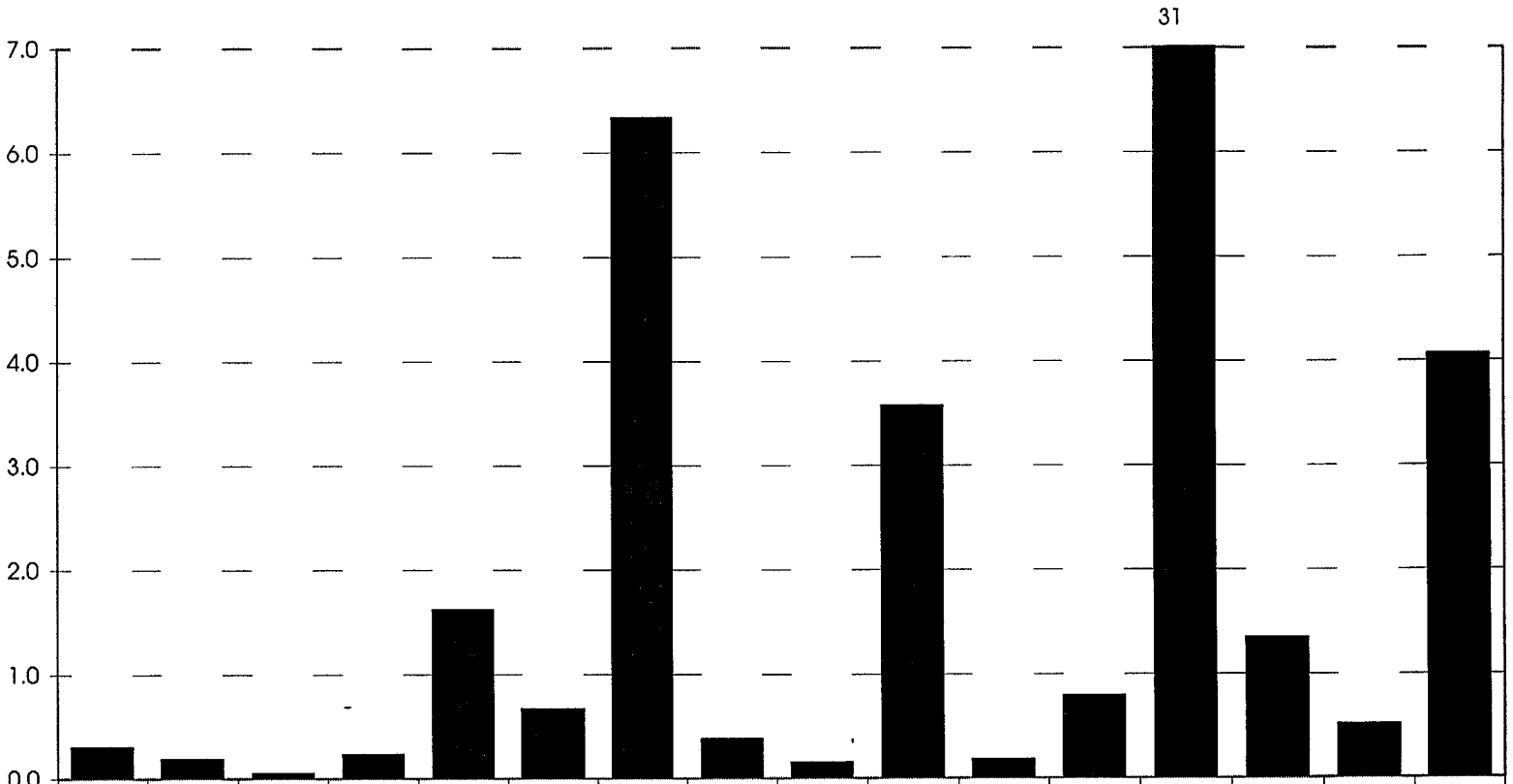
17724 CV II



	M Heart Normal MPI 86	M Heart Normal MPI 90	M Heart Normal MPI 92	H Heart Normal MPI 605	H Heart Normal MPI 52	H Heart Normal PIT 277	H Heart Normal TLO 1 H	H Heart Normal MPI 664	H Heart RV FCM&CH	H Heart RV FCM MPI 615	H Heart RV MPI	H Heart Severe FCM	H Heart Infarct NDR 170	H Heart Severe FCM	H Kidney Normal MPI 168	H Kidney Normal MPI 58	M Kidney Normal MPI 88	M Kidney Normal MPI 282	H Muscle Normal MPI 602	H Muscle Normal MPI 570	H Liver Normal MPI 145	H Liver Normal MPI 155
17724 Average	34.6	34.9	37.8	32.4	29.9	31.0	32.0	29 2	29.8	30.3	30.2	31 1	29.6	30.2	32.7	32.7	33.0	38 8	31.3	31.1	32.1	33.3
B2 Average	20.2	20.1	21.3	20.3	18.0	17.9	18.0	16.3	19.9	20.4	18 4	20 7	17.7	20.4	19.8	19.6	20.5	23.4	19 9	18.2	17.5	16.2
Delta	14 45	14.83	16.51	12.05	11.90	13.09	14.01	12.98	9.90	9.98	11.84	10.46	11 90	9.86	12.85	13.11	12 47	15.35	11.35	12.99	14.60	17.02
REL	0.045	0.034	0.011	0.236	0 263	0.115	0.061	0.124	1.050	0 990	0.274	0.712	0.262	1.076	0.136	0.114	0.176	0 024	0.384	0.123	0.040	0.008

FIG. 6

17724 CV III



	H Aorta Normal CLN	H Aorta Normal PIT 394	M Aorta Normal	M Aorta Normal	H Int Mamm Art	H Int Mamm Art	H Int Mamm Art	H Int Mamm Art	M Corona ry	H Corona ry	H Corona ry	H Corona ry	M Renal Artery	M Renal Artery	H Saph Vein Normal	H Saph Vein Normal
17724 Average	35.0	35.6	34.4	31.3	34.3	33.1	33.1	33.6	33.5	34.2	40.0	33.2	28.7	31.2	31.0	34.6
B2 Average	23.3	23.2	20.0	19.2	25.0	22.5	25.8	22.2	20.8	26.1	27.6	22.9	23.8	21.6	20.1	26.6
Delta	11.71	12.42	14.41	12.09	9.28	10.55	7.31	11.38	12.70	8.13	12.45	10.31	4.98	9.54	10.94	7.95
■ REL	0.300	0.183	0.046	0.230	1.614	0.667	6.324	0.375	0.150	3.570	0.179	0.790	7.000	1.343	0.509	4.058

FIG. 7

Phase 1.2.1 expression of 17724

	Aorta / normal	Fetal heart/ normal	Heart normal	Heart/ CHF	Vein/ Norma l	SMC (Aortic)	Spinal cord/ Norma	Brain cortex/ Norma	Brain hypoth alamu	Glial cells (Astro	Brain/ Glioba stoma	Breast / Norma	Breast tumor/ IDC	OVAR Y/ Norma	OVAR Y/ Tumor	Pancre as	Prostat e/ Norma	Prostat e/ Tumor	Colon/ normal	Colon/t umor	Colon/I BD	Kidney / normal	Liver/ normal	Liver fibrosi s	Fetal Liver/n ormal	Lung / normal	Lung/ tumor	Lung/ COPD	Spleen / normal	Tonsil/ normal	Lymph node/ normal	Thymu s/ normal	Epithel ial Cells	Endoth elial Cells	Skelet al Muscl	Fibrobl asts (Derm	Skin/ normal	Adipoc e/ Norma	Osteo blasts (primar	Osteo blasts (Undiff	Osteo blasts(Diff)	Osteo clasts	Aorta SMC (Early)	Aorta SMC (Late)	HUVE C (shear)	HMVE C (static)
17724 MEAN	37 76	31 01	33 16	33 84	34 20	35 70	29 77	29 24	27 91	35 39	30 66	34 76	31 69	34 76	32 66	34 88	37 23	34 86	38 34	34 03	37 05	36 04	36 95	38 12	35 86	33 27	32 35	35 42	38 55	36 69	35 95	37 49	34 99	40 00	32 51	39 05	35 60	35 79	39 16	38 03	37 06	36 40	35 05	37 28	37 68	39 20
62M803 MEAN	21 96	18 99	17 76	19 31	18 40	18 23	20 91	20 13	18 45	20 29	17 15	18 45	17 33	19 71	18 35	17 03	18 20	17 31	17 95	17 67	17 58	19 59	18 26	18 57	20 26	16 93	17 29	17 06	19 22	17 06	17 62	19 64	19 25	20 06	18 28	17 75	20 32	17 85	19 67	18 07	17 44	16 75	18 11	20 12	19 74	19 04
dCt	15 80	12 02	15 40	14 53	15 80	17 47	8 87	9 11	9 45	15 19	13 51	16 32	14 36	15 06	14 31	17 85	19 03	17 56	20 39	16 37	19 47	16 45	18 69	19 55	15 60	16 34	15 06	18 37	19 34	19 61	18 34	17 85	15 74	19 94	14 24	21 30	15 29	17 95	19 50	19 97	19 64	19 66	16 95	17 16	17 64	20 16
Expression	0 02	0 24	0 02	0 04	0 02	0 01	2 14	1 62	1 42	0 03	0 09	0 01	0 05	0 03	0 05	0 00	0 00	0 01	0 00	0 01	0 00	0 01	0 00	0 00	0 02	0 01	0 03	0 00	0 00	0 00	0 00	0 00	0 02	0 00	0 05	0 00	0 03	0 00	0 00	0 00	0 00	0 00	0 01	0 01	0 00	0 00

FIG. 8

Analysis of 31945 (663 aa)

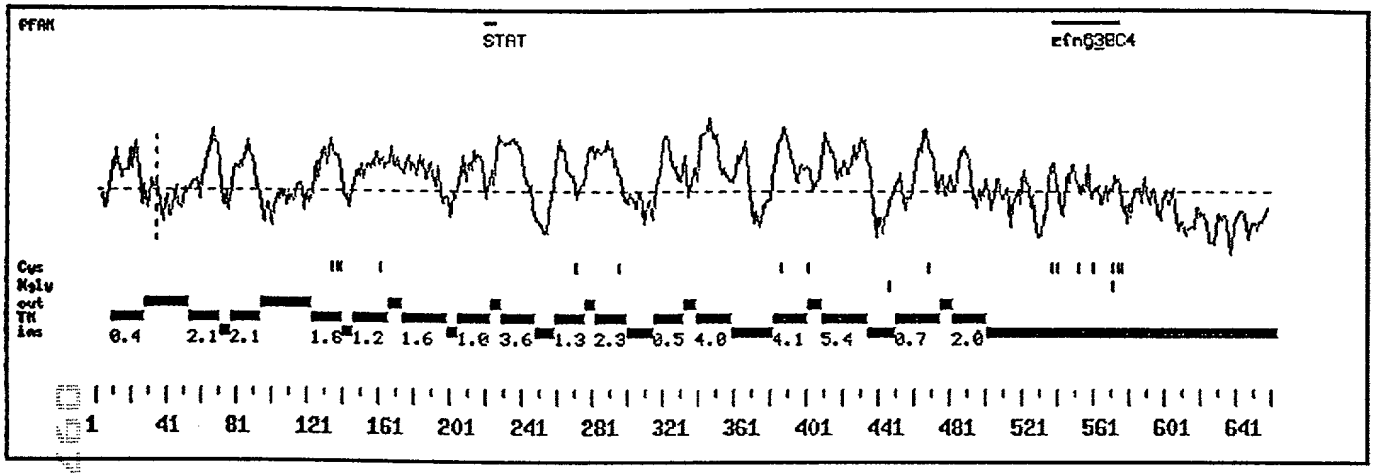


FIG. 9

945.prot

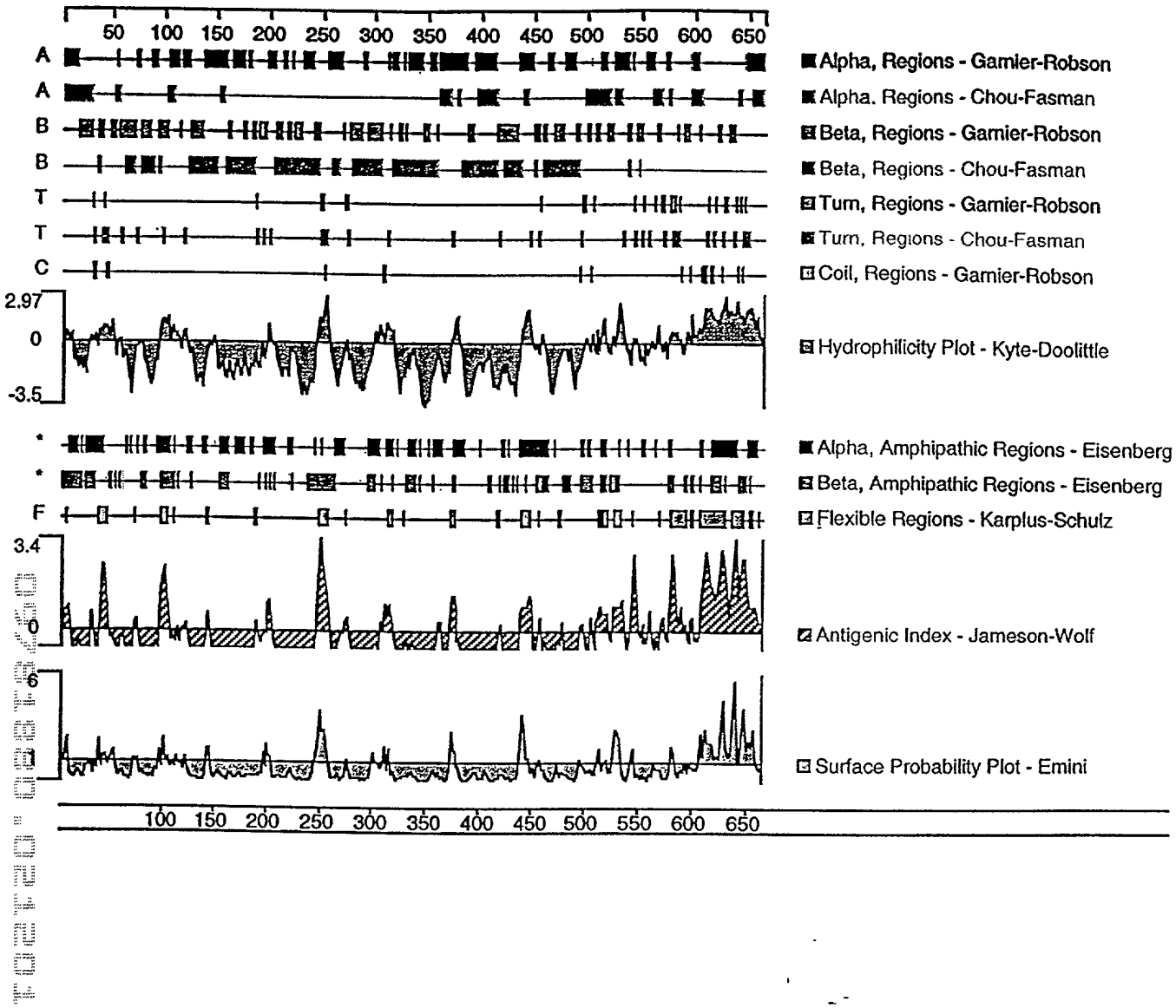


FIG. 10

Taqman Chart+Table

GPCR 31945 Expression

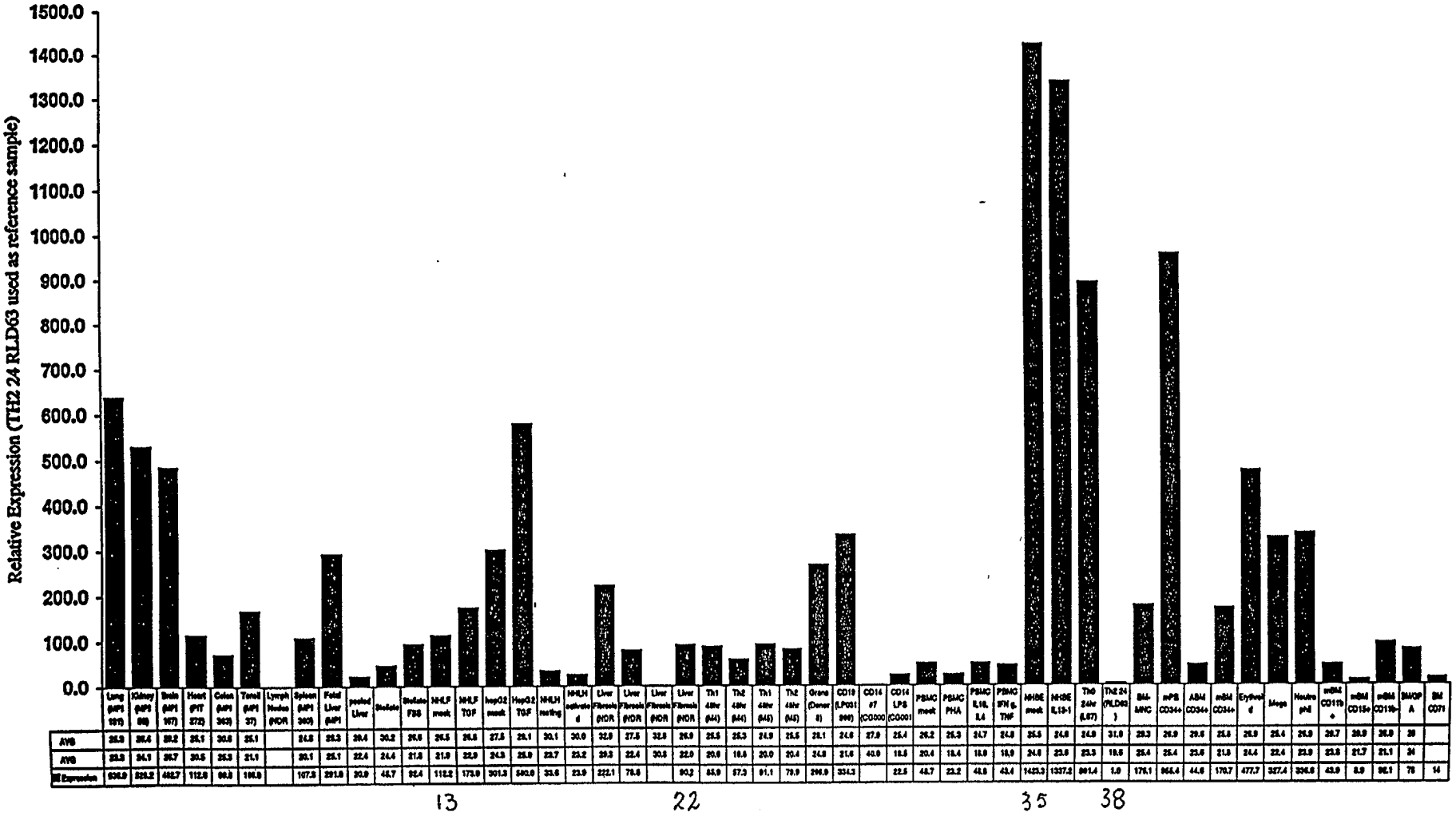
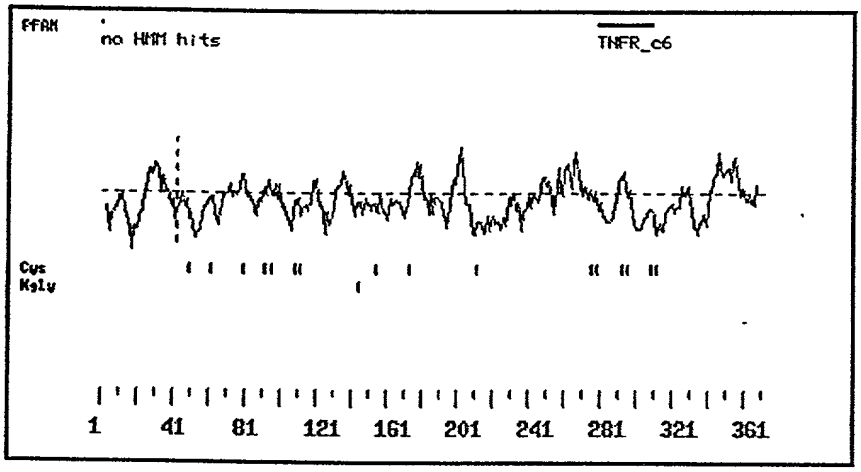


FIG. 11

09781880 - 032301

Analysis of 50288 (372 aa)



EP 1 074 608 A2

FIG. 12

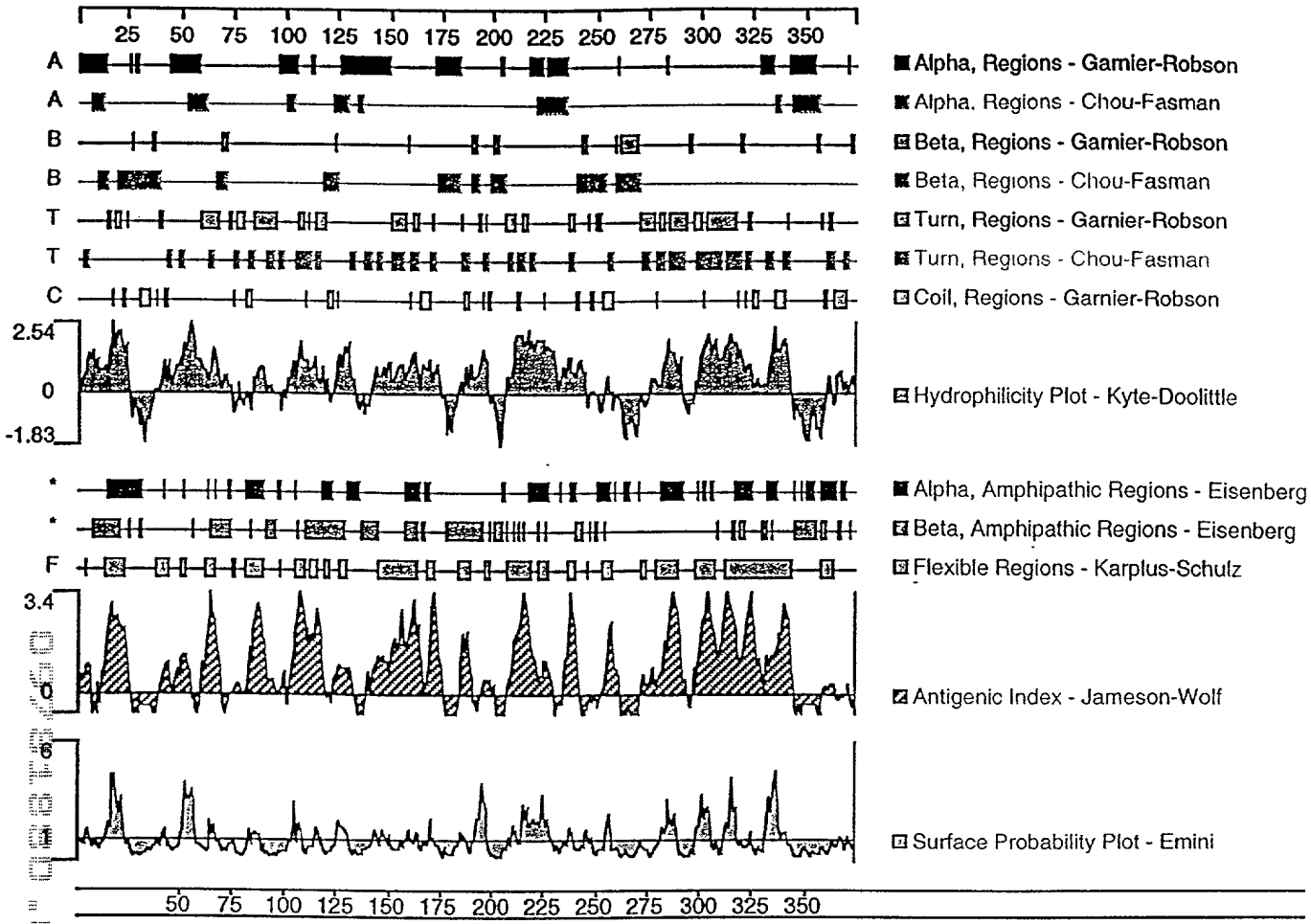

25 50 75 100 125 150 175 200 225 250 275 300 325 350
A
A
B
B
T
T
C
Alpha, Regions - Garnier-Robson
Alpha, Regions - Chou-Fasman
Beta, Regions - Garnier-Robson
Beta, Regions - Chou-Fasman
Turn, Regions - Garnier-Robson
Turn, Regions - Chou-Fasman
Coil, Regions - Garnier-Robson
2.54
0
-1.83
Hydrophilicity Plot - Kyte-Doolittle
*
*
F
Alpha, Amphipathic Regions - Eisenberg
Beta, Amphipathic Regions - Eisenberg
Flexible Regions - Karplus-Schulz
3.4
0
Antigenic Index - Jameson-Wolf
6
1
Surface Probability Plot - Emini
50 75 100 125 150 175 200 225 250 275 300 325 350

FIG. 13

Taqman Chart+Table

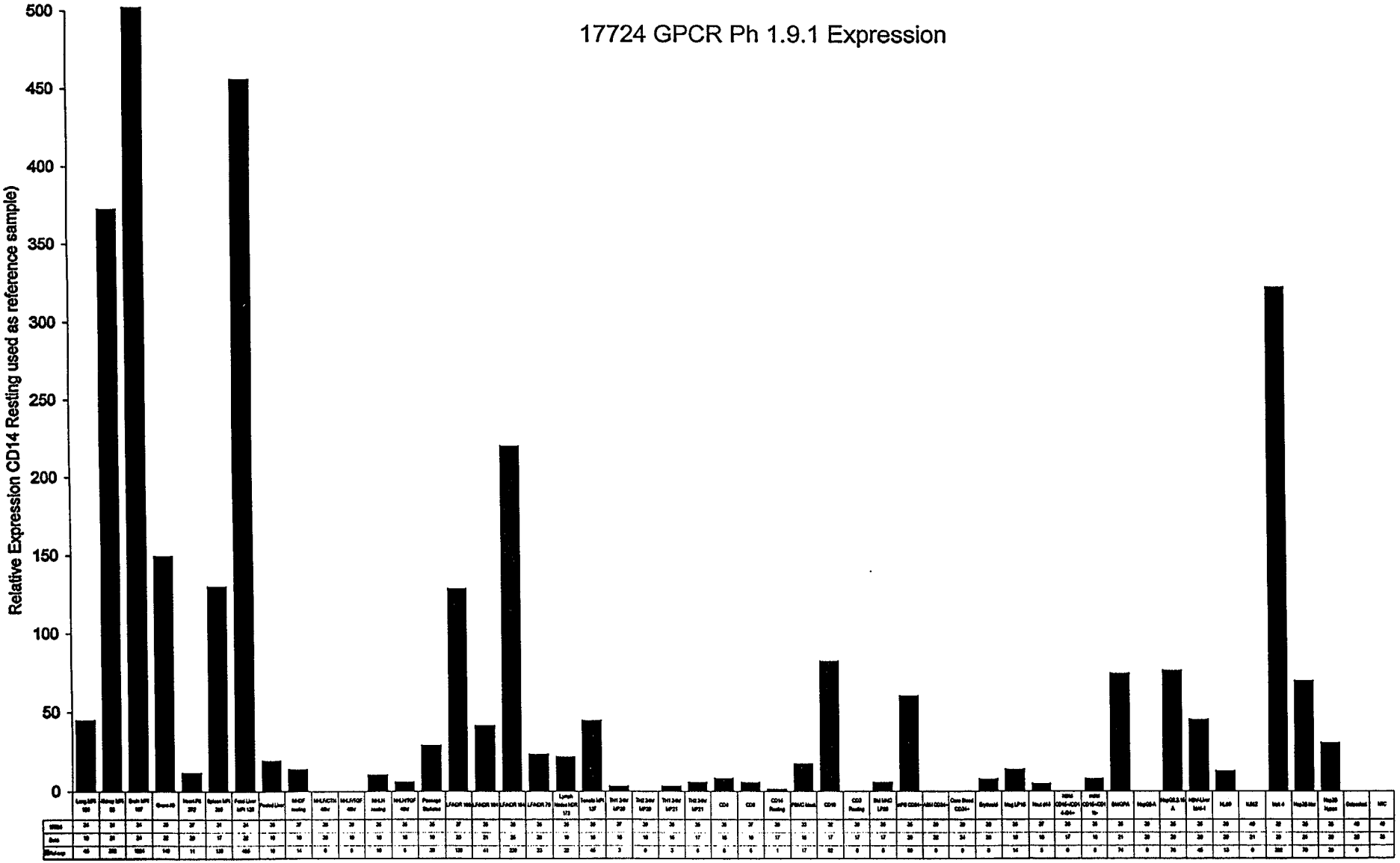


FIG. 14

17724 Expression in Oncology Plate I

	NDR 13 Breast N	PIT 400 Breast N	PIT 371 Breast N	PIT 56 Breast N	MDA 106 Breast T	MDA 234 Breast T	NDR 57 Breast T	MDA 304 Breast T	NDR 58 Breast T	NDR 132 Breast T	NDR 07 Breast T	NDR 12 Breast T	PIT 208 Ovary N	CHT 620 Ovary N	CHT 619 Ovary N	MDA 293 Ovary N	CLN 03 Ovary T	CLN 05 Ovary T	CLN 17 Ovary T	CLN 07 Ovary T	CLN 08 Ovary T	MDA 216 Ovary T	CLN 012 Ovary T	MDA 25 Ovary T	MDA 183 Lung N	CLN 930 Lung N	MDA 185 Lung N	CHT 816 Lung N	CHT 814 Lung T	MDA 262 Lung T	CHT 911 Lung T	CHT 726 Lung T	MDA 259 Lung T	CHT 845 Lung T	CHT 832 Lung T	MDA 253 Lung T
Mean 17724	40	40	40	40	33.45	37.98	40	39.19	35.73	39.37	40	39.19	39.24	35.23	35.31	39.68	39.95	38.19	34.8	36.55	40	36.63	40	39.52	40	40	39.89	40	34.88	37.96	40	29.83	40	40	40	40
6.2 Mean	20.9	18.91	23.96	21.51	18.45	19.14	19.7	18.05	22.13	20.35	22.96	19.22	20.09	20.81	24.5	19.73	19	20.34	19.3	19.06	21.38	22.5	22.64	18.12	21.45	20.25	17.89	17.17	23.9	19.36	17.79	20.29	21.29	19.54	19	20.25
ΔΔ Ct	19.1	21.09	16.06	18.49	14.99	18.84	20.31	21.14	13.6	19.02	17.02	19.97	19.16	14.43	10.81	19.95	20.95	17.86	15.49	17.49	18.62	14.13	17.36	21.4	18.56	19.75	22	22.83	10.98	18.59	22.22	9.34	18.71	20.47	21	19.75
2^-ΔΔ Expression	0	0	0	0	0.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0	0	0	0.49	0	0	1.54	0	0	0	0

FIG. 15

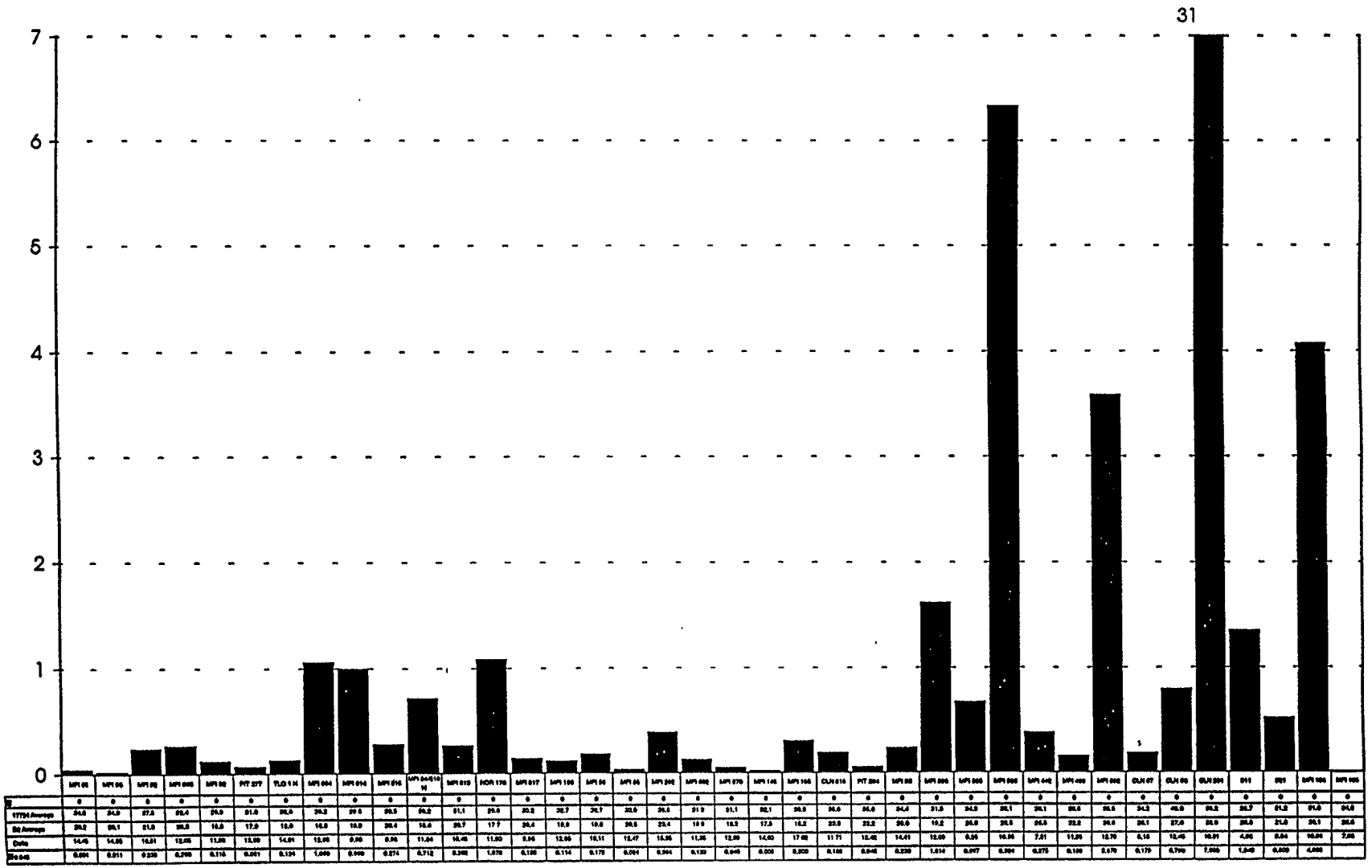


FIG. 16

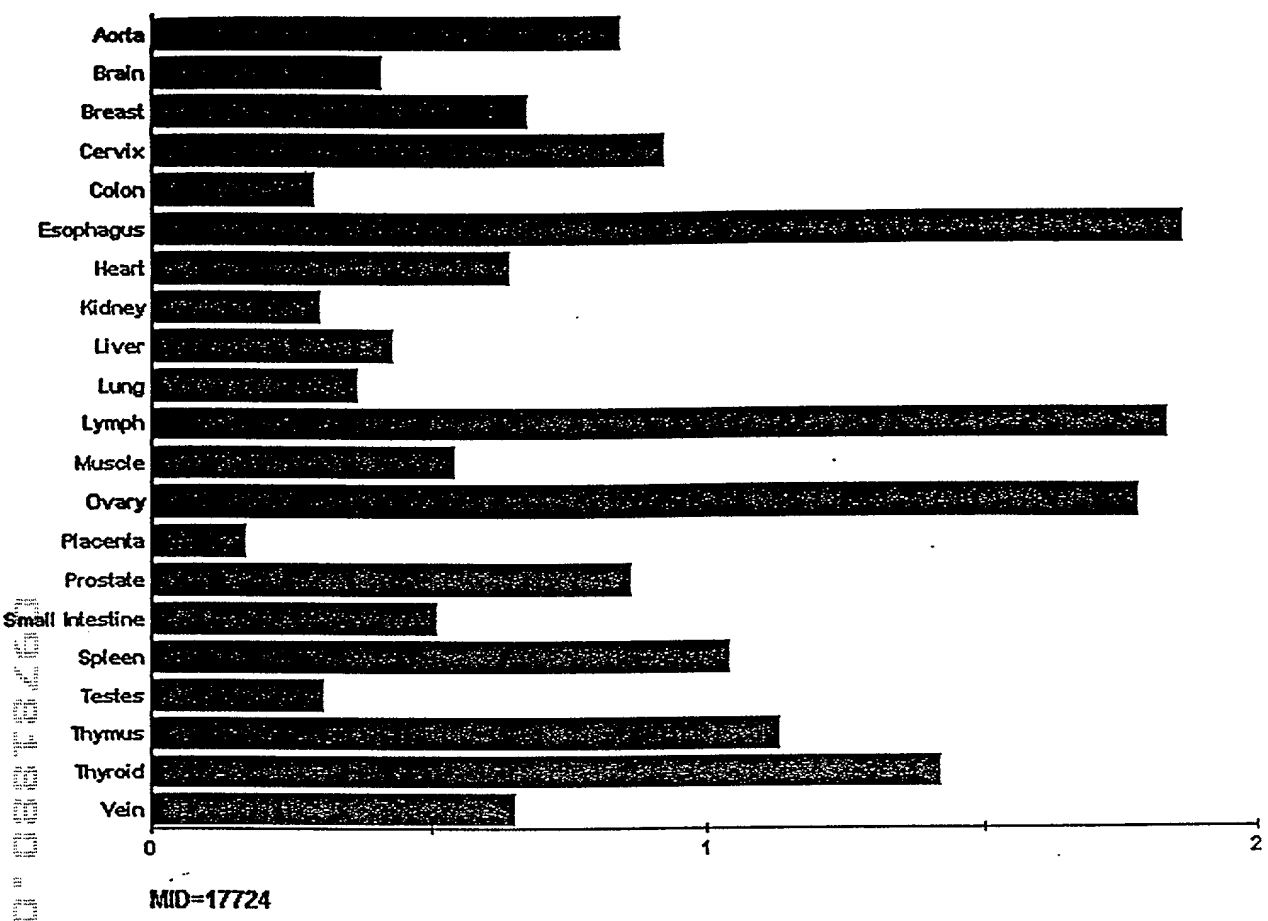

Clone cbhTb018f11jt
Aorta
Brain
Breast
Cervix
Colon
Esophagus
Heart
Kidney
Liver
Lung
Lymph
Muscle
Ovary
Placenta
Prostate
Small Intestine
Spleen
Testes
Thymus
Thyroid
Vein
0
1
2
MID=17724

FIG. 17